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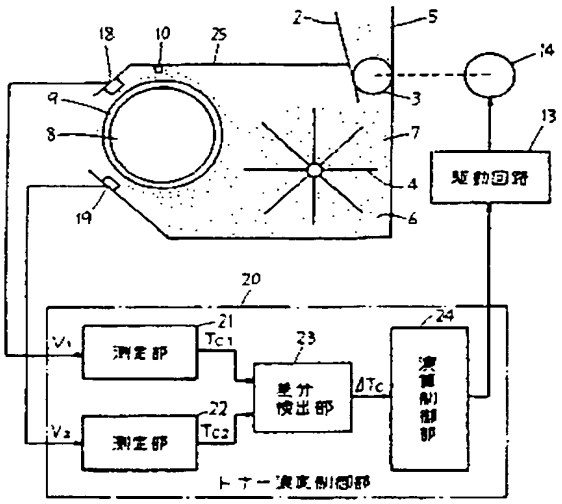
TITLE : TONER CONCENTRATION CONTROL METHOD



ABSTRACT : PURPOSE: To stabilize toner concentration by measuring the toner concentration of a developer which is carried in and the toner concentration of a developer which is carried out and supplementing toner according to the difference in toner concentra tion.

CONSTITUTION: A toner concentration sensor 18 sends out an output voltage V_1 corre sponding to the toner concentration of a developer 7 to the measurement part 21 of a toner concentration control part 20 and the measurement part 21 sends out toner concentration Tc_1 corresponding to the output voltage V_1 to a difference detection part 23. A toner concentration sensor 19 sends out an output voltage V_2 corresponding to the toner concentration of the developer 7 after development to the measurement part 22 of the toner concentration control part 20 and the measurement part 22 sends out toner concentration Tc_2 corresponding to the output voltage V_2 to the difference detection part 23. The difference detection part 23 finds the difference ΔTc between the toner concentration Tc_1 and toner concentration Tc_2 and sends it out to an arithme tic control part 24, which finds the supply amount of toner required for toner consump tion obtained from the ΔTc and controls a driving circuit 13 to rotate a motor 14, so that toner is supplied from a roller for toner supply to the agitation area of an agitator 4 by the necessary supply quantity. Consequently, the toner concentration is controlled to constant concentration.